UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/532,377	04/21/2005	Edward Zheng	100697.0016US	4273	
34284 Rutan & Tucke	7590 08/03/2007 er LLP	•	EXAMINER		
Hani Z. Sayed 611 ANTON BLVD			LIU, JON	LIU, JONATHAN	
SUITE 1400	SLVD		ART UNIT	PAPER NUMBER	
COSTA MESA	A, CA 92626	•	3673		
			MAIL DATE	DELIVERY MODE	
			08/03/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/532,377	ZHENG, EDWARD				
Office Action Summary	Examiner	Art Unit				
	Jonathan J. Liu	3673				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING I Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statur Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tirm I will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 15 May 2006.						
2a)⊠ This action is FINAL . 2b)☐ Thi	☐ This action is FINAL . 2b)☐ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-3,6-14 and 21</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>11-14</u> is/are allowed.						
6)⊠ Claim(s) <u>1-3,6-10 and 21</u> is/are rejected.						
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>8/11/2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) ☐ The oath or declaration is objected to by the E	Examiner. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 	nts have been received. Its have been received in Applicat ority documents have been received in Applicat (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

DETAILED ACTION

In response to remarks filed 5/15/2006

Response to Arguments

1. Applicant's arguments filed 5/15/2007 have been fully considered but they are not persuasive.

With regards to applicant's argument wherein the "...hammock stand collapses in a single movement in which two of the four legs approximate each other in a front-to-back and side-to-side motion <u>as</u> two of the support rods pivot towards each other..." — the invention to Wu is clearly capable of such functional limitation, i.e. the legs may be unhooked (thereby, two of the legs approximate each other in a front-to-back motion) while the hammock stand is folded inwardly as shown in figure 4 (thereby two of the legs approximate each other in a side-to-side motion) as two of the support rods pivot towards each other. Furthermore, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim.

In regards to applicant's arguments that Wu's cross brace is intended to stop movement of the parts relative to each other, and therefore teaches against the claimed invention – when the cross braces are in the position of figure 3 – "upon folding" - they do not stop movement but rather follow the movement of members 2, 3 respectively (see figures 4-5), and therefore meet the amended limitation of "synchronize a movement…" [see below rejection].

Application/Control Number: 10/532,377 Page 3

Art Unit: 3673

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim 21 is rejected under 35 U.S.C. 102(b) as being anticipated by Wu (US 6,467,109). Wu discloses a hammock stand comprising four legs (4), four support rods (2, 3) to which a hammock is coupled, and a pair of cross braces (5), wherein the legs, the support rods, and the cross braces are coupled to each other such that the cross braces upon folding of the hammock stand synchronize a movement in which two of the four legs approximate each other in a front-to-back and side-to-side motion (see figures 3-5) as two of the support rods pivot towards each other, and wherein the second of the four legs is coupled to the first of the support rods via a connector rod (1), wherein the pair of cross braces are rotatably coupled to each other (through members 1-3), and wherein at least one of the cross braces is rotatably coupled to the first of the four legs (through members 1 and 2), and rotatably coupled to a third of the support rods (see examiner's attachment).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1-3 and 6-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wu (US 6,467,109) in view of Bien (US 3,464,069). Wu teaches a hammock stand comprising four legs (4), four support rods (2, 3) to which a hammock is coupled, and a pair of cross braces (5), wherein the legs, the support rods, and the cross braces are coupled to each other such that the cross braces upon folding of the hammock stand synchronize a movement in which two of the four legs approximate each other in a front-to-back and side-to-side motion (see figures 3-5) as two of the support rods pivot towards each other, and wherein the second of the four legs is coupled to the first of the support rods via a connector rod (1) that forms an obtuse angle with the second of the four legs when the hammock stand is in an open configuration (see examiner's attachment). However, Wu does not teach wherein the connector rod releasably engages the first of the support rods. Bien teaches that rivets and screws are equivalent fastening means (col. 3, lines 31-33). Wu and Bien are analogous because they are from the same field of endeavor, i.e. collapsible supports. It would have been obvious to make the rivets (12) of Wu to be screws - thereby making the connector rod (Wu: 1) releasably engagable with the first support rod (Wu: 3). The motivation would have been to provide a means to replace specific rods (i.e. members 1-4) of Wu without having to replace the whole stand (due to the releasable connection of the screws at member 11 of Wu). Therefore, it would have been obvious to modify the invention to Wu as specified in claim 1.

With regards to claim 2, a first and second of the four legs are rotatably coupled to each other (through member 1 of Wu).

Regarding claim 3, a first support rod is rotatably coupled to the first of the four legs (through member 1 of Wu) and wherein a second of the support rods is rotatably coupled to the second of the four legs (through member 1 of Wu; see examiner's attachment).

With regards to claim 6, the cross braces in the pair of cross braces are rotatably coupled to each other (through members 1-4 of Wu), and wherein at least one of the cross braces is rotatably coupled to the first of the four legs (through members 1 and 3 of Wu) and rotatably coupled to a third of the support rods (Wu: 3).

In regards to claim 7, the hammock is coupled to at least two of the four support rods via a hook (Wu: 60).

Regarding claim 8, Wu as modified, teaches a flexible element (Wu: 8) that couples the first of the four legs with a third of the four legs and that facilitates collapsing of the hammock stand when the flexible element is pulled upwards relative to the ground and when the hammock stand is in an open configuration.

With regards to claim 9, it would have been obvious to make the net of Wu a sheet of fabric (as shown by member 36 of Bien) as an alternative expedient for support.

In regards to claim 10, the sheet of fabric inherently comprises a handle (anywhere where one can grab said sheet).

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan J. Liu whose telephone number is (571) 272-8227. The examiner can normally be reached on Monday through Friday, 8 am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patricia Engle can be reached on (571) 272-6660. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/532,377

Art Unit: 3673

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Patricia Engle

Supervisory Patent Examiner

Art Unit 3673

Jonathan Liu Patent Examiner Art Unit 3673

Attachment:

Figure 1 of Wu (US 6,467,109)

EXAMINER'S AHACHMENT

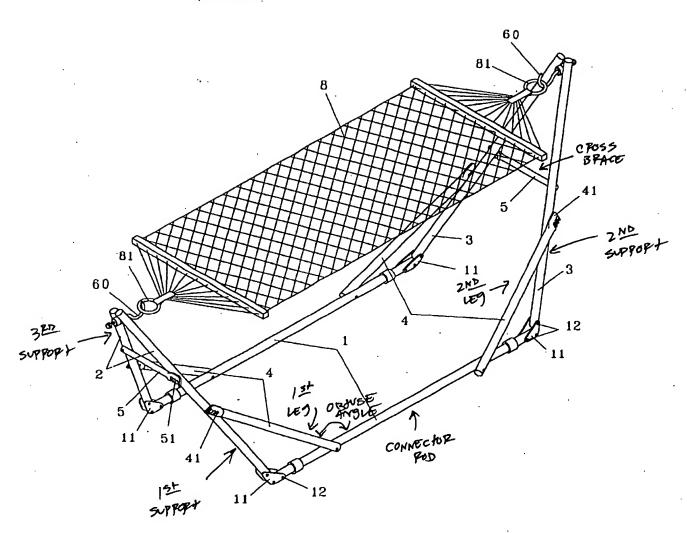


FIG.1